

The effective process of VE through construction design and work VE analysis

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Abstract

VE(Value Engineering) began to be developed from 1940's to increase productivity around manufacturing industry.

Since VE method fulfilled lots of reformation goals required by many industry fields, and was recognized as effective method to manage limited budget, it has been applied to all industry fields from 1980's in Korea.

Particularly in construction field, VE started to be applied since General Method of Public Construction Work Effectiveness was presented by government and Construction Technology Management Law was reformed in March, 1999.

Since then, VE is required for all public construction work over 10 Billion Won in the basic design and construction phase by economic review and construction VE guideline.

In the case of domestic construction field, many problems such as formal access without detailed investigation or the lack of the objectivity in the evaluation method by the limited conditions of execution period, budget, recruiting VE team members can be found because the VE is performed by only formal obligation required by government.

In this study, we will examine the effective process and solution for limited conditions in case by case through VE sample analysis, and present the objective evaluation criteria which can be feasible for evaluating the outcome of VE.